

**Amendments to the Claims:**

Re-write the claims as set forth below. This listing of claims will replace all prior versions and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method of data compression comprising:

~~grouping a plurality of pixel data into a plurality of tiles;~~

retrieving tiles of pixel data;

prior to compression, resizing the tiles and evaluating said resized tiles for compression suitability to determine if said resized tile is to be fully compressed, partially compressed or uncompressed, wherein said full or partial compression recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles and wherein evaluating prior to compression comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data; and

fully or partially compressing said resized tiles if said resized tiles are deemed suitable for said full or partial compression;

wherein said evaluating further comprises:

determining that a resized tile is suitable for partial compression when the resized tile is covered by a plurality of primitives;

designating said resized tile for partial compression if it is deemed to be suitable and wherein partial compression comprises employing at least two color designations for subsamples of a same resized tile to compress data for the resized tile; and  
partially compressing the resized tile using a single bit to represent each of the at least two color designations.

2. (currently amended) The method of claim 1 wherein said pixel data is color information and further comprising operating on the resized tile in its compressed format.

3. (currently amended) The method of claim 1 wherein said evaluating further comprises:

determining whether a resized tile is suitable for full compression;

designating said resized tile for full compression if it is deemed to be suitable.

4. (currently amended) The method of claim 3 wherein said determining whether the resized tile is suitable for full compression further comprises:

determining whether said resized tile is wholly covered by a triangle primitive.

5. (currently amended) The method of claim 3 wherein said fully compressing further comprises:

storing a single color entry for each pixel in said resized tile.

6. (original) The method of claim 3 wherein said full compression compresses said pixel data into one word per pixel.

7. (canceled)

8. (currently amended) The method of claim 1 wherein said determining that a resized tile is suitable for partial compression further comprises:

determining whether said resized tile is covered by no more than two triangle primitives.

9. (currently amended) The method of claim 1 wherein said partial compressing further comprises:

assigning an order to triangle primitives covering said resized tile;

determining the color type of each sample of said resized tile;

creating a compressed format of color entries out of said pixel data;

creating a pointer to said compressed format.

10. (currently amended) The method of claim 9 wherein said pointer comprises a bit encoding associated with each sample in said resized tile, wherein each bit represents an index to entries in said compressed format.

11. (original) The method of claim 10 wherein said pointer further comprises a short-hand bit encoding scheme for encoding a pixel with no replacement colors.

12. (previously presented) The method of claim 1 wherein said partial compression compresses said pixel data into two words per pixel.

13. (currently amended) The method of claim 1 wherein said resized tiles are 2x2 in size.

14. (withdrawn) A method for compressing image data, comprising:  
retrieving tiles of pixel data from a main memory;  
resizing said tiles;  
compressing said tiles, wherein said tiles are stored in cache memory after compression;  
processing said tiles in a graphics processor.
15. (withdrawn) The method of claim 14 further comprising:  
returning said tiles from said graphics processor to cache memory;  
resizing said tiles in cache memory for storage in said main memory; and  
returning said tiles to main memory.
16. (withdrawn) The method of claim 15 wherein said graphics processor comprises:  
a first Tile Format Table (TFT), wherein said graphics processor uses information from  
said TFT to process said tiles.
17. (withdrawn) The method of claim 16 wherein said first TFT comprises:  
a compression format entry for each of said tiles in said main memory.
18. (withdrawn) The method of claim 17 wherein said entry comprises an encoding  
for a plurality of states for each of said tiles, said states comprising:  
a full compression state;  
a partial compression state;

an uncompressed state; and

a clear state.

19. (withdrawn) The method of claim 16 wherein said graphics processor comprises:  
a second TFT, wherein said second TFT comprises a compression format entry for each  
of said tiles in said cache memory.

20. (withdrawn) The method of claim 19 wherein said entry in said second TFT  
comprises an encoding for a plurality of states for each of said tiles, said states comprising:

a full compression state;

a partial compression state;

an uncompressed state; and

a clear state.

21. (withdrawn) The method of claim 20 wherein said size of tiles in said main  
memory and size of tiles in said cache memory differ.

22. (withdrawn) The method of claim 20 wherein tiles in said main memory is of size  
4x4 and tiles in said cache memory is of size 2x2.

23. (withdrawn) The method of claim 22 wherein said step of resizing said tiles in  
cache memory for storage in said main memory further comprises:

combining four 2x2 tiles in said cache memory into a 4x4 tile;

choosing a lowest common compression level from among said four 2x2 tiles; and  
using said lowest common compression level to compress said 4x4 tile, wherein said 4x4  
is returned for storage in said main memory.

24. (withdrawn) The method of claim 20 wherein said step of processing further  
comprises:

clearing entries in said cache memory by setting each entry of said second TFT to said  
clear state;

writing a clear color stored on said graphics processor in said entries in said cache  
memory.

25. (withdrawn) The method of claim 14 wherein said step of processing does not  
decompress said tiles prior to processing said tiles in a graphics processor.

26. (withdrawn) The method of claim 14 further comprising:  
accessing color information of samples in each of said pixel in said tiles, wherein  
duplicate color information is accessed once;

combining color information samples to obtain one color for said pixel.

27. (withdrawn) The method of claim 14 wherein said step of compressing further  
comprise:

evaluating said tiles for compression suitability, wherein said compression recognizes  
duplicate data and reduces amount of duplicate data stored within said tiles;

compressing said tiles if said tiles are deemed suitable for said compression.

28. (withdrawn) The method of claim 27 wherein said step of evaluating further comprises:

determining whether a tile is suitable for full compression;

designating said tile for full compression if it is deemed to be suitable.

29. (withdrawn) The method of claim 28 wherein said step of determining further comprises:

determining whether said tile is wholly covered by a triangle primitive.

30. (withdrawn) The method of claim 28 wherein said step of compressing further comprises:

storing a single color entry for each pixel in said tile.

31. (withdrawn) The method of claim 27 wherein said step of evaluating further comprises:

determining whether a tile is suitable for partial compression;

designating said tile for partial compression if it is deemed to be suitable.

32. (withdrawn) The method of claim 31 wherein said step of determining further comprises:

determining whether said tile is covered by less than two triangle primitives.

33. (withdrawn) The method of claim 31 wherein said step of compressing further comprises:

- assigning an order to triangle primitives covering said tile;
- determining the color type of each sample of said tile;
- creating a compressed format of color entries out of said pixel data;
- creating a pointer to said compressed format.

34. (currently amended) A graphics processing apparatus comprising:

~~a grouping unit configured to group a plurality of pixel data into a plurality of tiles;~~  
retrieving tiles of pixel data;

an evaluation unit configured to resize the tiles and to evaluate said resized tiles for compression suitability prior to compression to determine if a resized tile is to be fully compressed, partially compressed or uncompressed, wherein said full or partial compression recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles and determines whether a resized tile is suitable for partial compression when the resized tile is covered by a plurality of primitives and wherein evaluating prior to compression comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data;

a compression unit configured to partially compress resized tiles if they are suitable for partial compression and wherein partial compression comprises employing at least two color designations for subsamples of a same resized tile to compress data for the resized tile and



wherein the compression unit is operative to partially compress the resized tile using a single bit to represent each of the at least two color designations.

35. (currently amended) The graphics processing apparatus of claim 34, wherein said pixel data is color information operating on the resized tile in its compressed format.

36. (withdrawn) The graphics processing apparatus of claim 34, further comprising:  
a main memory for storing said tiles;  
a cache memory for receiving said tiles from said main memory; and  
a graphics processor, wherein said compression unit is configured to compress said tiles when they are brought into said cache memory from said main memory.

37. (withdrawn) The graphics processing apparatus of claim 36 wherein said graphics processor further comprises:

a first TFT.

38. (withdrawn) The graphics processing apparatus of claim 37 wherein said first TFT comprises:

a compression format entry for each of said tiles in said main memory.

39. (withdrawn) The graphics processing apparatus of claim 38 wherein said entry comprises an encoding for a plurality of states for each of said tiles, said states comprising:

a full compression state;

a partial compression state;  
an uncompressed state; and  
a clear state.

40. (withdrawn) The graphics processing apparatus of claim 39 wherein said graphics processor comprises:

a second TFT, wherein said second TFT comprises a compression format entry for each of said tiles in said cache memory.

41. (withdrawn) The graphics processing apparatus of claim 40 wherein said entry in said second TFT comprises an encoding for a plurality of states for each of said tiles, said states comprising:

a full compression state;  
a partial compression state;  
an uncompressed state; and  
a clear state.

42. (withdrawn) The graphics processing apparatus of claim 41 wherein said size of tiles in said main memory and size of tiles in said cache memory differ.

43. (withdrawn) The graphics processing apparatus of claim 41 wherein tiles in said main memory is of size 4x4 and tiles in said cache memory is of size 2x2.

44. (withdrawn) The graphics processing apparatus of claim 43 wherein said compression unit is configured to:

- combine four 2x2 tiles in said cache memory into a 4x4 tile;
- choose a lowest common compression level from among said four 2x2 tiles; and
- use said lowest common compression level to compress said 4x4 tile, wherein said 4x4 is returned for storage in said main memory.

45. (withdrawn) The graphics processing apparatus of claim 41 wherein said graphics processor is configured to clear entries in said cache memory by setting each entry of said second TFT to said clear state and write a clear color stored on said graphics processor in said entries in said cache memory.

46. (withdrawn) The graphics processing apparatus of claim 36 wherein said tiles are not decompressed prior to being processed by said graphics processor.

47. (withdrawn) The graphics processing apparatus of claim 36 wherein said evaluation unit is further configured to determine whether a tile is suitable for full compression and designate said tile for full compression if it is deemed to be suitable.

48. (withdrawn) The graphics processing apparatus of claim 47 wherein said evaluation unit is further configured to determine whether said tile is wholly covered by a triangle primitive.

49. (withdrawn) The graphics processing apparatus of claim 48 wherein said compression unit is further configured to store a single color entry for each pixel in said tile.

50. (withdrawn) The graphics processing apparatus of claim 36 wherein said evaluation unit is further configured to determine whether a tile is suitable for partial compression and designate said tile for partial compression if it is deemed to be suitable.

51. (withdrawn) The graphics processing apparatus of claim 50 wherein said evaluation unit is further configured to determine whether said tile is covered by less than two triangle primitives.

52. (withdrawn) The graphics processing apparatus of claim 50 wherein said compression unit is further configured to:

- assign an order to triangle primitives covering said tile;
- determine the color type of each sample of said tile;
- create a compressed format of color entries out of said pixel data;
- create a pointer to said format.

53. (withdrawn) The graphics processing apparatus of claim 52 wherein said pointer comprises a bit encoding associated with each sample in said tile, wherein each bit represents an index to entries in said compressed format.

54. (withdrawn) The graphics processing apparatus of claim 53 wherein said pointer further comprises a short-hand bit encoding scheme for encoding a pixel with no replacement colors.

55. (currently amended) The graphics processing apparatus of claim 34 wherein said resized tiles are 2x2 in size.

56. (currently amended) A computer program product comprising:  
a non-transitory computer ~~usable-readable~~ medium having ~~non-transitory~~ computer readable program code embodied therein configured for data compression, comprising:

computer readable code configured to cause a computer to resize retrieved tiles prior to compression; ~~group a plurality of pixel data into a plurality of tiles;~~

computer readable code configured to cause a computer to evaluate said resized tiles, prior to compression, for compression suitability to determine if said resized tile is to be fully compressed, partially compressed or uncompressed,[[.]] wherein said partial or full compression recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles and wherein evaluating prior to compression comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data; and

wherein said computer readable code configured to cause a computer to evaluate further causes the computer to:

determine whether a resized tile is suitable for partial compression when the resized tile is covered by a plurality of primitives;

designate said resized tile for partial compression if it is deemed to be suitable and wherein partial compression comprises employing at least two color designations for subsamples of a same resized tile to compress data for the resized tile; and partially compress the resized tile using a single bit to represent each of the at least two color designations.

57. (currently amended) The computer program product of claim 56 wherein said pixel data is color information operating on the resized tile in its compressed format.

58. (currently amended) The computer program product of claim 56 wherein said computer readable code configured to cause a computer to evaluate further comprises:

computer readable code configured to cause a computer to determine whether a resized tile is suitable for full compression;

computer readable code configured to cause a computer to designate said resized tile for full compression if it is deemed to be suitable.

59. (currently amended) The computer program product of claim 58 wherein said computer readable code configured to cause a computer to determine whether the resized tile is suitable for full compression further comprises:

computer readable code configured to cause a computer to determine whether said resized tile is wholly covered by a triangle primitive.

60. (currently amended) The computer program product of claim 58 wherein said computer readable code configured to cause a computer to fully compress further comprises:

computer readable code configured to cause a computer to store a single color entry for each pixel in said resized tile.

61. (original) The computer program product of claim 58 wherein said full compression compresses said pixel data into one word per pixel.

62. (canceled)

63. (currently amended) The computer program product of claim 56 wherein said computer readable code configured to cause a computer to determine if a resized tile is suitable for partial compression further comprises:

computer readable code configured to cause a computer to determine whether said resized tile is covered by no more than two triangle primitives.

64. (currently amended) The computer program product of claim 56 wherein said computer readable code configured to cause a computer to compress further comprises:

computer readable code configured to cause a computer to assign an order to triangle primitives covering said resized tile;

computer readable code configured to cause a computer to determine the color type of each sample of said resized tile;

computer readable code configured to cause a computer to create a compressed format of color entries out of said pixel data;

computer readable code configured to cause a computer to create a pointer to said compressed format.

65. (currently amended) The computer program product of claim 64 wherein said pointer comprises a bit encoding associated with each sample in said resized tile, wherein each bit represents an index to entries in said compressed format.

66. (original) The computer program product of claim 65 wherein said pointer further comprises a short-hand bit encoding scheme for encoding a pixel with no replacement colors.

67. (previously presented) The computer program product of claim 56 wherein said partial compression compresses said pixel data into two words per pixel.

68. (currently amended) The computer program product of claim 56 wherein said resized tiles are 2x2 in size.

69. (withdrawn) A computer program product comprising:  
a computer usable medium having computer readable program code embodied therein configured for data compression, comprising:

computer readable code configured to cause a computer to retrieve tiles of pixel data from a main memory;



computer readable code configured to cause a computer to resize said tiles;  
computer readable code configured to cause a computer to compress said tiles, wherein said tiles are stored in cache memory after compression;  
computer readable code configured to cause a computer to process said tiles in a graphics processor.

70. (withdrawn) The computer program product of claim 69 further comprising:  
computer readable code configured to cause a computer to return said tiles from said graphics processor to cache memory;  
computer readable code configured to cause a computer to resize said tiles in cache memory for storage in said main memory; and  
computer readable code configured to cause a computer to return said tiles to main memory.

71. (withdrawn) The computer program product of claim 70 wherein said graphics processor comprises:  
a first Tile Format Table (TFT), wherein said graphics processor uses information from said TFT to process said tiles.

72. (withdrawn) The computer program product of claim 71 wherein said first TFT comprises:  
a compression format entry for each of said tiles in said main memory.

73. (withdrawn) The computer program product of claim 72 wherein said entry comprises an encoding for a plurality of states for each of said tiles, said states comprising:

- a full compression state;
- a partial compression state;
- an uncompressed state; and
- a clear state.

74. (withdrawn) The computer program product of claim 71 wherein said graphics processor comprises:

a second TFT, wherein said second TFT comprises a compression format entry for each of said tiles in said cache memory.

75. (withdrawn) The computer program product of claim 74 wherein said entry in said second TFT comprises an encoding for a plurality of states for each of said tiles, said states comprising:

- a full compression state;
- a partial compression state;
- an uncompressed state; and
- a clear state.

76. (withdrawn) The computer program product of claim 75 wherein said size of tiles in said main memory and size of tiles in said cache memory differ.

77. (withdrawn) The computer program product of claim 75 wherein tiles in said main memory is of size 4x4 and tiles in said cache memory is of size 2x2.

78. (withdrawn) The computer program product of claim 77 wherein said computer readable code configured to cause a computer to resize said tiles in cache memory for storage in said main memory further comprises:

computer readable code configured to cause a computer to combine four 2x2 tiles in said cache memory into a 4x4 tile;

computer readable code configured to cause a computer to choose a lowest common compression level from among said four 2x2 tiles; and

computer readable code configured to cause a computer to use said lowest common compression level to compress said 4x4 tile, wherein said 4x4 is returned for storage in said main memory.

79. (withdrawn) The computer program product of claim 75 wherein said computer readable code configured to cause a computer to process further comprises:

computer readable code configured to cause a computer to clear entries in said cache memory by setting each entry of said second TFT to said clear state;

computer readable code configured to cause a computer to write a clear color stored on said graphics processor in said entries in said cache memory.

80. (withdrawn) The computer program product of claim 69 wherein said computer readable code configured to cause a computer to process does not decompress said tiles prior to processing said tiles in a graphics processor.

81. (withdrawn) The computer program product of claim 69 further comprising:  
computer readable code configured to cause a computer to access color information of samples in each of said pixel in said tiles, wherein duplicate color information is accessed once;  
computer readable code configured to cause a computer to combine color information samples to obtain one color for said pixel.

82. (withdrawn) The computer program product of claim 69 wherein said computer readable code configured to cause a computer to compress further comprise:  
computer readable code configured to cause a computer to evaluate said tiles for compression suitability, wherein said compression recognizes duplicate data and reduces amount of duplicate data stored within said tiles;  
computer readable code configured to cause a computer to compress said tiles if said tiles are deemed suitable for said compression.

83. (withdrawn) The computer program product of claim 82 wherein said computer readable code configured to cause a computer to evaluate further comprises:  
computer readable code configured to cause a computer to determine whether a tile is suitable for full compression;

computer readable code configured to cause a computer to designate said tile for full compression if it is deemed to be suitable.

84. (withdrawn) The computer program product of claim 83 wherein said computer readable code configured to cause a computer to determine further comprises:

computer readable code configured to cause a computer to determine whether said tile is wholly covered by a triangle primitive.

85. (withdrawn) The computer program product of claim 83 wherein said computer readable code configured to cause a computer to compress further comprises:

computer readable code configured to cause a computer to store a single color entry for each pixel in said tile.

86. (withdrawn) The computer program product of claim 82 wherein said computer readable code configured to cause a computer to evaluate further comprises:

computer readable code configured to cause a computer to determine whether a tile is suitable for partial compression;

computer readable code configured to cause a computer to designate said tile for partial compression if it is deemed to be suitable.

87. (withdrawn) The computer program product of claim 86 wherein said computer readable code configured to cause a computer to determine further comprises:

computer readable code configured to cause a computer to determine whether said tile is covered by less than two triangle primitives.

88. (withdrawn) The computer program product of claim 86 wherein said computer readable code configured to cause a computer to compress further comprises:

computer readable code configured to cause a computer to assign an order to triangle primitives covering said tile;

computer readable code configured to cause a computer to determine the color type of each sample of said tile;

computer readable code configured to cause a computer to create a compressed format of color entries out of said pixel data;

computer readable code configured to cause a computer to create a pointer to said compressed format.

89. (currently amended) A method of data compression comprising:

~~grouping a plurality of pixel data into a plurality of tiles;~~

retrieving tiles of pixel data;

resizing the tiles;

evaluating said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles and wherein evaluating ~~prior to compression~~ comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data;

partially compressing said resized tiles if said resized tiles are deemed suitable for said partial compression;

wherein said evaluating further comprises:

determining whether a resized tile is suitable for full compression by determining whether said resized tile is wholly covered by a triangle primitive;

designating said resized tile for full compression if it is deemed to be suitable; and

designating said resized tile for partial compression if it is deemed to be suitable for partial compression wherein partial compression comprises creating a compressed format of color entries out of said pixel data and creating a pointer to said compressed format, wherein the pointer comprises a bit encoding associated with each sample in the resized tile.

90. (currently amended) A computer program product comprising:

a non-transitory computer ~~usable~~-readable medium having computer readable program code embodied therein configured for data compression, comprising:

computer readable code configured to cause a computer to:

group a plurality of pixel data into a plurality of resized tiles;

evaluate said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles;

partially or fully compress said resized tiles if said resized tiles are deemed suitable for ~~[[said]]~~partial or full compression;

wherein evaluating further comprises:

determining whether a resized tile is suitable for full compression by determining whether said resized tile is wholly covered by a triangle primitive; designating said resized tile for full compression if it is deemed to be suitable; and designating said resized tile for partial compression if it is deemed to be suitable for partial compression wherein partial compression comprises creating a compressed format of color entries out of said pixel data and creating a pointer to said compressed format, wherein the pointer comprises a bit encoding associated with each sample in the resized tile.

91. (currently amended) A method of data compression comprising:  
~~grouping a plurality of pixel data into a plurality of tiles;~~  
retrieving tiles of pixel data;  
resizing the tiles;  
evaluating said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces an amount of duplicate data stored within said resized tiles and wherein evaluating ~~prior to compression~~ comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data;  
partially compressing said resized tiles if said resized tiles are deemed suitable for said partial compression;  
wherein said evaluating further comprises:  
determining whether a resized tile is suitable for partial compression by  
determining whether said resized tile is covered by no more than two triangle primitives;  
and  
designating said resized tile for partial compression if it is deemed to be suitable.



92. (currently amended) A computer program product comprising:  
a non-transitory computer ~~usable-readable~~ medium having ~~non-transitory~~ computer readable program code embodied therein configured for data compression, comprising:  
computer readable code configured to cause a computer to:  
~~group a plurality of pixel data into a plurality of tiles;~~  
retrieve tiles of pixel data;  
resize the tiles;  
evaluate said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles and wherein evaluating ~~prior to compression~~ comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data;  
partially compress said resized tiles if said resized tiles are deemed suitable for said partial compression;  
wherein evaluating further comprises:  
determining whether a resized tile is suitable for partial compression by  
determining whether said resized tile is covered by no more than two triangle primitives;  
and  
designating said resized tile for partial compression if it is deemed to be suitable.

93. (currently amended) A computer program product comprising:  
a non-transitory computer ~~usable-readable~~ medium having ~~non-transitory~~ computer readable program code embodied therein configured for data compression, comprising:

computer readable code configured to cause a computer to:

~~group a plurality of pixel data into a plurality of tiles;~~

retrieve tiles of pixel data;

resize the tiles;

evaluate said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces an amount of duplicate data stored within said resized tiles and wherein evaluating prior to compression comprises determining whether partial compression will result in memory space saving compared to uncompressed pixel data;

compress said resized tiles if said resized tiles are deemed suitable for said compression;

wherein evaluating further comprises:

determining whether a resized tile is suitable for partial compression;

designating said resized tile for partial compression if it is deemed to be suitable;

wherein partial compressing further comprises:

assigning an order to triangle primitives covering said resized tile;

determining the color type of each sample of said resized tile;

creating a compressed format of color entries out of said pixel data; and

creating a pointer to said compressed format.

94. (previously presented) The method of claim 1 wherein partial compression comprises employing pointers to designate samples that correspond to an original color designation and a replacement color designation.

95. (previously presented) The method of claim 1 wherein the method is carried out by a graphics processor.

96. (previously presented) The method of claim 89 wherein the method is carried out by a graphics processor.

97. (previously presented) The method of claim 91 wherein the method is carried out by a graphics processor.

98. (currently amended) A method of data compression comprising:  
~~grouping a plurality of pixel data into a plurality of tiles;~~  
retrieving tiles of pixel data;  
resizing the tiles;  
evaluating said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles; and  
partially compressing said resized tiles if said resized tiles are deemed suitable for said partial compression;  
wherein said evaluating further comprises:  
determining whether a resized tile is suitable for partial compression; and  
designating said resized tile for partial compression if it is deemed to be suitable;  
wherein said partial compressing further comprises:

assigning an order to triangle primitives covering said resized tile;

determining the color type of each sample of said resized tile;

creating a compressed format of color entries out of said pixel data; and

creating a pointer to said compressed format;

wherein said pointer comprises a bit encoding associated with each sample in said resized tile, wherein each bit represents an index to entries in said compressed format;

wherein said pointer further comprises a short-hand bit encoding scheme for encoding a pixel with no replacement colors.

99. (currently amended) A computer program product comprising:

a non-transitory computer ~~usable-readable~~ medium having ~~non-transitory~~ computer readable program code embodied therein configured for data compression, comprising:

computer readable code configured to cause a computer to retrieve tiles of pixel data; group a plurality of pixel data into a plurality of tiles;

computer readable code configured to cause a computer to resize said tiles and to evaluate said resized tiles for compression suitability, wherein said compression suitability recognizes duplicate data and reduces amount of duplicate data stored within said resized tiles; and

computer readable code configured to cause a computer to partially compress said resized tiles if said resized tiles are deemed suitable for said partial compression;

wherein said computer readable code configured to cause a computer to evaluate further comprises:

determining whether a resized tile is suitable for partial compression; and

designating said resized tile for partial compression if it is deemed to be suitable;

wherein said computer readable code configured to cause a computer to partially compress further comprises:

computer readable code configured to cause a computer to assign an order to triangle primitives covering said resized tile;

computer readable code configured to cause a computer to determine the color type of each sample of said resized tile;

computer readable code configured to cause a computer to create a compressed format of color entries out of said pixel data;

computer readable code configured to cause a computer to create a pointer to said compressed format;

wherein said pointer comprises a bit encoding associated with each sample in said resized tile, wherein each bit represents an index to entries in said partial compressed format;

wherein said pointer further comprises a short-hand bit encoding scheme for encoding a pixel with no replacement colors.